

A photograph of the Roane County Waste Water Plant. The plant consists of several large, tan-colored rectangular buildings with flat roofs. In the center, there is a smaller building with two dark windows. A gravel driveway leads to the plant, with two white pickup trucks parked in front of the central building. To the right, a sign on a fence reads "MARCO ROANE CO ACCEPTING ILLEGAL DUMP WILL BE F". The plant is surrounded by green grass and trees, with a clear blue sky in the background.

# Roane County Waste Water Plant 123 Post Oak Valley Road, Rockwood

Presented to County  
Commission 10-18-10

Executive Summary #2  
October 18, 2010

# Roane County Waste Water History

- ▶ Plant constructed by the Roane County Industrial Development Board in 1976
- ▶ Plant primarily built to serve the Roane County Industrial Park and Roane State Community College – operated by Roane County Government
- ▶ Sewer plant property and lines transferred to Roane County Government in 2001



# County Board of Public Utilities

- ▶ Established January 2006 TCA 5-16-101
  - Stan Malone, Chairman
  - George Yarborough, Vice Chairman
  - Paul Hester
  - Glen Long
  - Jim Ryans
  - Gene McClure, Ex-officio

Meets 4<sup>th</sup> Thursday of Each Month



# Roane County Waste Water Finances

- ▶ Accounted for in Special Revenue Fund 128
- ▶ Annual Budget
  - Beginning Balance      \$453,428
  - Est Revenue              476,200
  - Est Expenditures        703,728
  - Ending Balance          \$225,900
- In last fiscal year \$300,000 was borrowed and a portion was expended last year and portion to be expended this year.



# Waste Water Plant Employees

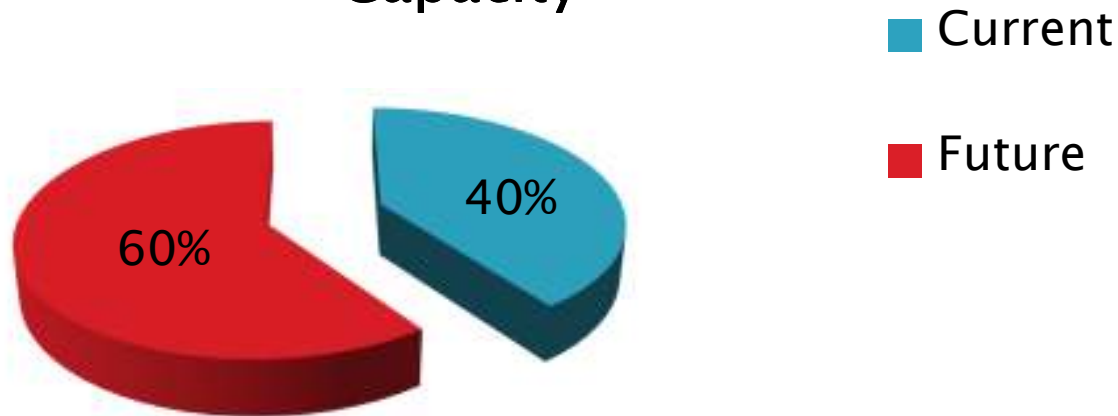
- ▶ Gene McClure
  - Plant Supervisor
- ▶ James Hill
  - Chief Operator
- ▶ Mike Stout
  - Collection System Operator
- ▶ David Griffis
  - Heavy Equipment Operator & Truck Driver



# Plant Capacity

- ▶ Plant capacity is 1,000,000 gallons per day
- ▶ Currently operating at 40% capacity – 400,000 gallons per day

Capacity



# Pump Stations

- ▶ 14 pump station presently on the system
- ▶ 6 are owned by other entities
  - Roane State Community College
  - Renaissance Terrace Care and Rehabilitation (formerly Marshall Voss) (2)
  - Tennessee Valley Authority
  - College Grove Apartments
  - Caney Creek RV
- ▶ 55 STEP or E 1 systems are owned by individual businesses or homes.





# Sewage System

- ▶ Approximately 160 residential, 83 commercial and 12 industrial customers
- ▶ Approximately 9 ½ miles of gravity collection mains
- ▶ Approximately 21 miles of force main
- ▶ Service area covers approximately 20,000 acres





# Rate Schedule

- ▶ Residential
  - \$25.00/month flat rate
- ▶ Commercial & Industrial

|                          |         |
|--------------------------|---------|
| 0–3,000 gallons          | \$47.10 |
| 3,001 – 5,000 gallons    | \$10.77 |
| 5,001 – 11,000 gallons   | \$9.29  |
| 11,001 – 26,000 gallons  | \$8.26  |
| 26,001 – 101,000 gallons | \$7.13  |
| 101,001 gallons and up   | \$6.69  |

# Billing

## ▶ Roane Central Utility

- Residential and commercial customers along Highway 70 and Old Highway 70 to Caney Creek Marina, Webster Subdivision, Post Oak Valley Road and Docks of Caney Creek (Monthly Service)

## ▶ Rockwood Water, Sewer & Gas

- The Roane County Industrial Park, Joiner Hollow Rd, Caney Creek Road, Grand Vista Bay, Patton Lane, Old Patton Lane, Hwy 27 from Wholesale furniture to Roane Memorial Gardens. (Monthly Service & Tap Fees)



# Appalachian Regional Commission (ARC) Grant –Current Operations

- ▶ \$300,000 Grant with 50% match = \$600,000 total project
- ▶ Approved to proceed at County's own risk
- ▶ Grant was not approved
- ▶ Capital Improvements for Plant
  - \$302,500
- ▶ Capital Improvements for Collection System
  - \$269,000

# Five Year Capital Plan

## ▶ Planned Projects

- Planned upgrades were \$600,000 only \$300,000 will be completed since ARC grant was not approved
- Midtown (commercial, retail & residential)
- College Grove Estates & Harbin Subdivision (residential)

## ▶ Excludes

- Plant upgrades and/or other expansions
- Plateau Partnership Park
- Rockwood sewer needs



# Proposed Midtown Project

- ▶ Surveying & preliminary engineering is complete on South Highway 70
  
- ▶ Two Developments
  - Commercial & Retail
    - Keylon Drive and portions of North and South Highway 70
    - Cost \$2 million
  - Residential
    - Adjoining streets on Keylon Drive
    - Cost \$750,000–\$1 million



# SEWER PROPOSAL



# Midtown Project Timeline

- ▶ Upon notice to proceed
  - Engineering 2–3 months (November, December)
  - Bidding 1 month (January)
  - Awarding and contracting 1 month (February)
  - Construction could begin March 2011
  - Commercial and Retail ready by September 2011





# Midtown Project Funding

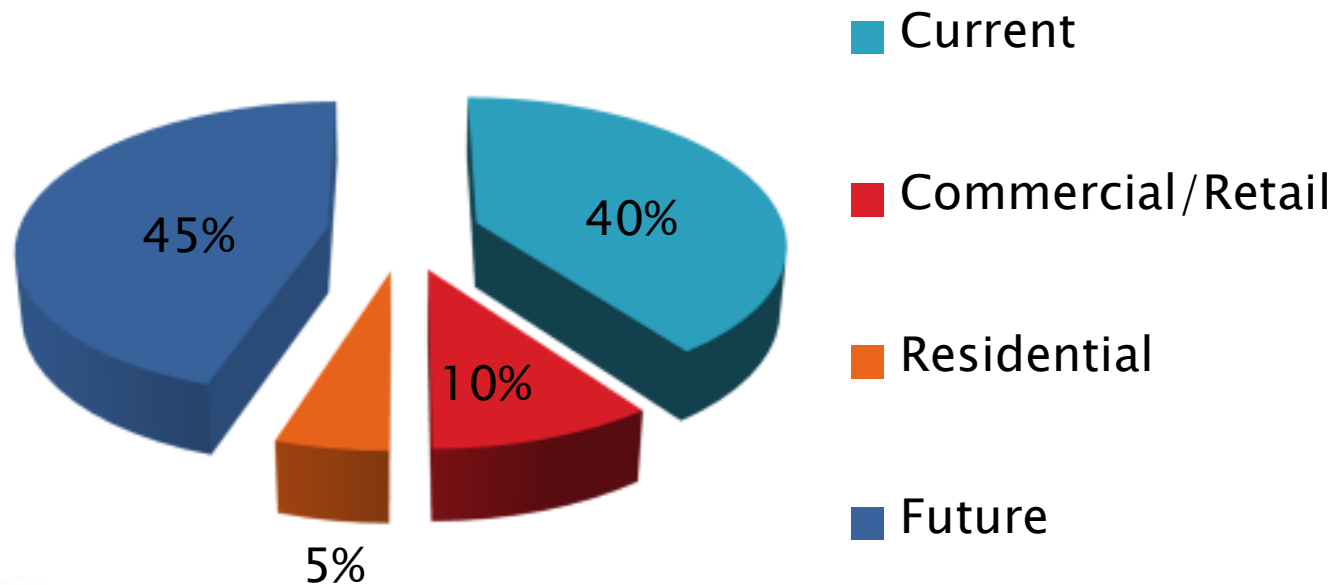
- ▶ Pursuing \$2,000,000 of TVA fines paid to TDEC
- ▶ State Revolving Fund
  - 20% loan forgiveness
  - 80% repayment at 2% interest
- ▶ Possibility of an Economic Development Administration (EDA) grant for City of Harriman
- ▶ Additional ARC grant (50/50 match)
- ▶ Tap Fees
- ▶ Developer Contributions
- ▶ Possible rate adjustments
- ▶ Midtown residential partially funded with CDBG \$500,000



# Midtown Project Impact on Plant Operations

- ▶ No plant upgrades will be necessary to handle increased flow from Midtown Project.

Capacity



# Proposed Rockwood Project

- ▶ Residential
  - College Grove Estates & Harbin Subdivision
    - Cost \$2,100,000



# Rockwood Project Funding

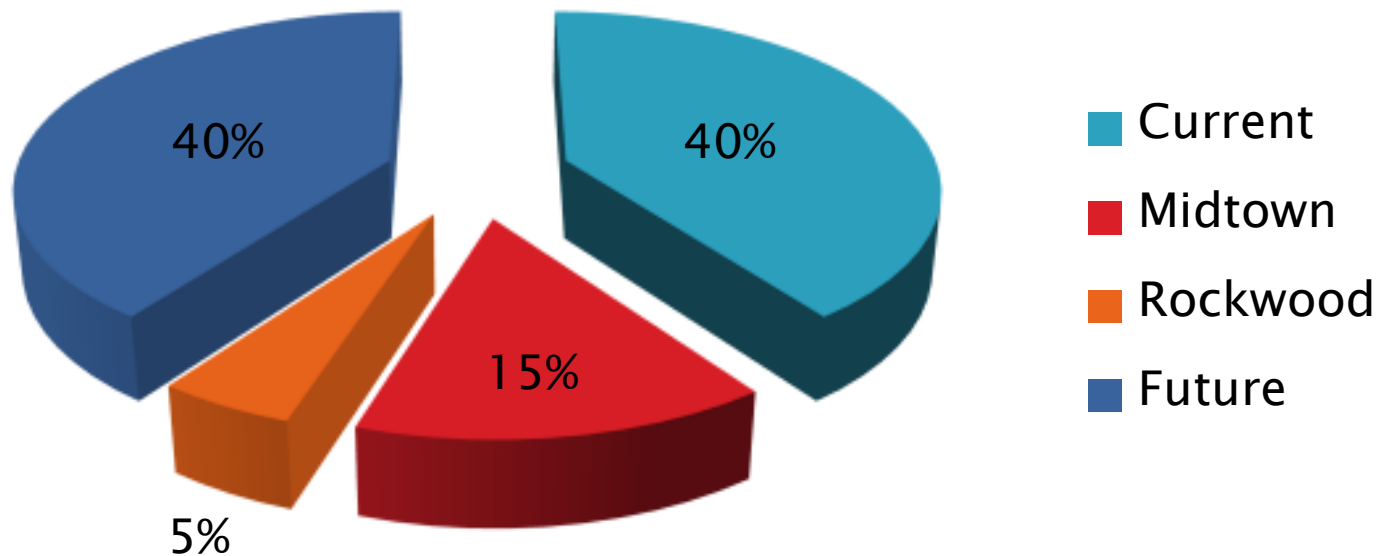
- ▶ Community Development Block Grant (CDBG)
- ▶ Grants or loans that may be available
- ▶ Rate adjustment



# Rockwood Project Impact on Plant Operations

- ▶ No plant upgrades will be necessary to handle increased flow from Rockwood Project.

Capacity



# Plateau Partnership Park

- ▶ Sewer installation primarily in existing Rights of Way
- ▶ **Cost Estimates**
  - Site 1 – From Roane County Industrial Park to Westel Road & 800 + acres
    - Cost \$5.5 million
  - Site 2 – Lateral from Interstate to Airport
    - Cost \$600,000
- ▶ No estimate on capacity requirements at this time due to unknown industry type. (Typical estimate is 500 gallons/day per acre.)



# Questions?

